EAST Search History

10/782137

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20040220975").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/19 12:21
L2	0	("((databaseor(dataadjstore))with(hashadjfunctions))and@ad<20030221").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/19 12:21
L3	219	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L4	85	L3 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L5	21	L3 and (data adj structure) and association	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L6	4	L3 and (data adj structure) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L7	8	L3 and ((data adj structure) or table) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L8	16	((database or (data adj store)) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L9	2	"5694569".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L10	73	((database or (data adj store) or file) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L11	73	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L12	13	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) near2 verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L13	6	"5694569".pn. or "20030188180" or "6745327".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L14	8	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L15	10	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn. or "5742807".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L16	4	"20030005306" or "5742087".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L17	0	("20030005306" or "5742087".pn.) with database with search	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L18	3	"20050187970"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L19	3	"20050182773"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L20	2	"20050186576"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L21	0	((database or (data adj store)) with (hash adj functions) with (random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L22	2	((database or (data adj store)) with (hash adj functions) same(random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L23	6	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number with (location or address))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L24	42	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L25	1937	(hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L26	0	(hash adj functions) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L27	0	(hash adj function) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L28	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L29	7	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L30	9	(hash) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L31	219	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L32	6	707/1.ccls. and L31 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L33	2	707/205.ccls. and L31 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L34	0	707/9.ccls. and L31 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L35	12	707/9.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L36	3	707/205.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L37	4	"6732161".pn. or "20030050958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L38	4	"6732161".pn. or "20030090958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L39	1879	(hash adj functions)and @ad>"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L40	1343	hash with first with second with values	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L41	2	hash with first with second with values with files with database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L42	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L43	3050	hash with first with second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L44	39	(hash with first with second with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L45	10	((hash near2 first) with (second near2 hash) with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L46	267	(hash adj functions)and @ad>"20060621" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L47	408	(hash adj functions)and @ad>"20060221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L48	843	(hash adj functions)and @ad>"20050221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L49	10	((hash near2 first) with (second near2 hash) with values with file)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L50	6567030	hash with firstwith second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L51	1937	(hash adj functions)and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L52	71	(hash adj functions) and @ad<"20030221" and (file with unique with identif$7) and (hash adj values)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L53	55	(hash adj functions) and @ad<"20030221" and (file with unique with identif$7) and (hash adj values) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L54	7	(hash adj functions) and @ad<"20030221" and (file with unique with identif$7) and (hash adj values) and (database with retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L55	0	(hash adj functions) and @ad<"20030221" and (file adj unique adj identif$7) and (hash adj values) and (database with retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L56	0	(hash adj functions) and @ad<"20030221" and (file adj unique adj identif$7) and (hash adj values) and (retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L57	16	((database or (data adj store)) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L58	12	(file adj unique adj identif$7)and @ad<"20030221" and (hash adj values) and (retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L59	0	("((databaseor(dataadjstore))with(hashadjfunctions))and@ad<20030221").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/19 12:21

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L60	13	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) near2 verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L61	2	"20050186576"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L62	8	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L63	10	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn. or "5742807".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L64	4	"20030005306" or "5742087".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L65	3	"20050182773"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L66	6	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number with (location or address))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L67	219	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L68	21	L67 and (data adj structure) and association	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L69	7	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L70	9	(hash) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L71	73	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L72	0	("20030005306" or "5742087".pn.) with database with search	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L73	4	"6732161".pn. or "20030050958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L74	73	((database or (data adj store) or file) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L75	4	"6732161".pn. or "20030090958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L76	85	L67 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L77	0	((database or (data adj store)) with (hash adj functions) with (random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L78	1937	(hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L79	0	(hash adj functions) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L80	0	(hash adj function) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L81	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L82	219	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L83	85	L82 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L84	6	707/1.ccls. and L82 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L85	1343	hash with first with second with values	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L86	2	707/205.ccls. and L82 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L87	0	707/9.ccls. and L82 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L88	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L89	12	707/9.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L90	3	707/205.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L91	1879	(hash adj functions)and @ad>"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L92	3050	hash with first with second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L93	408	(hash adj functions)and @ad>"20060221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L94	843	(hash adj functions)and @ad>"20050221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L95	10	((hash near2 first) with (second near2 hash) with values with file)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L96	8	L67 and ((data adj structure) or table) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L97	6567030	hash with firstwith second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L98	39	(hash with first with second with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L99	1937	(hash adj functions)and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L100	2	("20040220975").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/19 12:21
L101	4	L67 and (data adj structure) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L102	2	"5694569".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L103	6	"5694569".pn. or "20030188180" or "6745327".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L104	3	"20050187970"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L105	2	((database or (data adj store)) with (hash adj functions) same(random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L106	42	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L107	2	hash with first with second with values with files with database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L108	10	((hash near2 first) with (second near2 hash) with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L109	267	(hash adj functions)and @ad>"20060621" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L110	0	("20010027450" or "20030009538") and (hash same address)	US-PGPUB	OR	ON	2007/12/19 12:21
L111	0	("20010027450" or "20030009538") and (hash with address)	US-PGPUB	OR	ON	2007/12/19 12:21
L112	5	"20010027450" or "20030009538"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L113	2	"20010027450" or "20030009538"	US-PGPUB	OR	ON	2007/12/19 12:21
L114	0	("20010027450" or "20030009538") and (hash near3 address)	US-PGPUB	OR	ON	2007/12/19 12:21
L115	2	("20010027450" or "20030009538") and (hash or address)	US-PGPUB	OR	ON	2007/12/19 12:21
L116	2	("20010027450" or "20030009538") and (hash and address)	US-PGPUB	OR	ON	2007/12/19 12:21
L117	2	"5742087".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L118	2	"5742807".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L119	2	"5742087".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L120	46	((hash$3 near2 address) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L121	13	((hash$3 adj address) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

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L122	46	((hash$3 near2 address) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L123	3	((hash$3 near2 address near2 function) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L124	27	(hash$3 near2 address near5 file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L125	2	"6138237".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L126	219	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L127	9	707/101.ccls. and L126 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L128	1	707/5.ccls. and L126 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L129	4	707/4.ccls. and L126 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L130	2	707/204.ccls. and L126 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21

EAST Search History

L131	7	707/102.ccls. and L126 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L132	85	L126 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
L133	0	707/6.ccls. and L126 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 12:21
S1	2	("20040220975").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 18:33
S2	0	("((databaseor(dataadjstore))with(hashadjfunctions))and@ad<20030221").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/06 16:52
S3	202	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:28
S4	79	S3 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:39
S5	19	S3 and (data adj structure) and association	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/06 16:53
S6	3	S3 and (data adj structure) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/06 16:57
S7	5	S3 and ((data adj structure) or table) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/06 16:57

EAST Search History

S8	14	((database or (data adj store)) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 16:22
S9	2	"5694569".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 16:34
S10	63	((database or (data adj store) or file) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 16:23
S11	63	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 16:23
S12	12	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) near2 verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 16:33
S13	6	"5694569".pn. or "20030188180" or "6745327".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 16:47
S14	8	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 17:00
S15	10	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn. or "5742807".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 17:00
S16	4	"20030005306" or "5742087".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 15:19
S17	0	("20030005306" or "5742087".pn.) with database with search	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 15:19

EAST Search History

S18	2	"20050187970"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 18:35
S19	2	"20050182773"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 18:36
S20	2	"20050186576"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:27
S21	34	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:02
S22	0	((database or (data adj store)) with (hash adj functions) with (random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:29
S23	2	((database or (data adj store)) with (hash adj functions) same(random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:29
S24	6	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number with (location or address))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:32
S25	1686	(hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:41
S26	0	(hash adj functions) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:03
S27	0	(hash adj function) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:03

EAST Search History

S28	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:06
S29	7	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:09
S30	8	(hash) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:10
S31	202	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:39
S33	6	707/1.ccls. and S31 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:40
S34	2	707/205.ccls. and S31 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:40
S35	0	707/9.ccls. and S31 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:41
S36	10	707/9.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:41
S37	2	707/205.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 13:41
S38	4	"6732161".pn. or "20030090958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 17:29

EAST Search History

S39	4	"6732161".pn. or "20030050958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 17:30
S40	1792	(hash adj functions)and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 11:54
S41	1369	(hash adj functions)and @ad>"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 11:54
S42	436	(hash adj functions)and @ad>"20050221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 11:55
S43	109	(hash adj functions)and @ad>"20060221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 11:55
S44	32	(hash adj functions)and @ad>"20060621" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:04
S45	6111708	hash with firstwith second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:04
S46	2478	hash with first with second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:05
S47	1054	hash with first with second with values	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:07
S48	2	hash with first with second with values with files with database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:05

EAST Search History

S49	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:06
S50	36	(hash with first with second with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:07
S51	10	((hash near2 first) with (second near2 hash) with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:08
S52	10	((hash near2 first) with (second near2 hash) with values with file)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/04 12:09
S53	69	(hash adj functions) and @ad<"20030221" and (file with unique with identif$7) and (hash adj values)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 19:54
S54	55	(hash adj functions) and @ad<"20030221" and (file with unique with identif$7) and (hash adj values) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 19:54
S55	7	(hash adj functions) and @ad<"20030221" and (file with unique with identif$7) and (hash adj values) and (database with retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:07
S56	0	(hash adj functions) and @ad<"20030221" and (file adj unique adj identif$7) and (hash adj values) and (database with retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:07
S57	0	(hash adj functions) and @ad<"20030221" and (file adj unique adj identif$7) and (hash adj values) and (retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:08
S58	12	(file adj unique adj identif$7)and @ad<"20030221" and (hash adj values) and (retriev$4 with file)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:08

EAST Search History

S59	2	("20040220975").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 20:23
S60	0	("((databaseor(dataadjstore))with(hashadjfunctions))and@ad<20030221").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 20:23
S61	210	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S62	82	S61 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S63	20	S61 and (data adj structure) and association	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S64	4	S61 and (data adj structure) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S65	6	S61 and ((data adj structure) or table) and association and ((stor$4 or sav$3) with file with (database or (data adj stor)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S66	15	((database or (data adj store)) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S67	2	"5694569".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S68	71	((database or (data adj store) or file) with ((hash adj functions) or (message adj digest)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23

EAST Search History

S69	71	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) with verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S70	13	((database or (data adj store) or file) with ((hash adj functions) or (message adj digests)) near2 verif$6) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S71	6	"5694569".pn. or "20030188180" or "6745327".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S72	8	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S73	10	"5694569".pn. or "20030188180" or "6745327".pn. or "6076077".pn. or "5742807".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S74	4	"20030005306" or "5742087".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:40
S75	0	("20030005306" or "5742087".pn.) with database with search	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S76	2	"20050187970"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S77	3	"20050182773"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S78	2	"20050186576"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23

EAST Search History

S79	0	((database or (data adj store)) with (hash adj functions) with (random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S80	2	((database or (data adj store)) with (hash adj functions) same(random adj number)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S81	6	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number with (location or address))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S82	39	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S83	1860	(hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S84	0	(hash adj functions) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S85	0	(hash adj function) and @ad<"20030221" and (stor$4 with file with database with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S86	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S87	7	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S88	9	(hash) and @ad<"20030221" and (stor$4 with file with (random adj number)) and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23

EAST Search History

S89	210	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S90	82	S89 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S91	6	707/1.ccls. and S89 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S92	2	707/205.ccls. and S89 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S93	0	707/9.ccls. and S89 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S94	11	707/9.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S95	2	707/205.ccls. and (hash adj functions) and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S96	4	"6732161".pn. or "20030050958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S97	4	"6732161".pn. or "20030090958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S98	1543	(hash adj functions)and @ad>"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23

EAST Search History

S99	1155	hash with first with second with values	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S100	2	hash with first with second with values with files with database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S101	16	(hash adj function) and @ad<"20030221" and (stor$4 with file with (random adj number)) and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S102	2679	hash with first with second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S103	37	(hash with first with second with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S104	10	((hash near2 first) with (second near2 hash) with values with files)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S105	111	(hash adj functions)and @ad>"20060621" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S106	200	(hash adj functions)and @ad>"20060221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S107	575	(hash adj functions)and @ad>"20050221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S108	10	((hash near2 first) with (second near2 hash) with values with file)and @ad < "20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23

EAST Search History

S109	6288103	hash with firstwith second	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S110	1860	(hash adj functions)and @ad<"20030221" and (random adj number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 20:23
S111	5	"20010027450" or "20030009538"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:29
S112	2	"20010027450" or "20030009538"	US-PGPUB	OR	ON	2007/06/09 10:29
S113	0	("20010027450" or "20030009538") and (hash near3 address)	US-PGPUB	OR	ON	2007/06/09 10:29
S114	0	("20010027450" or "20030009538") and (hash with address)	US-PGPUB	OR	ON	2007/06/09 10:29
S115	0	("20010027450" or "20030009538") and (hash same address)	US-PGPUB	OR	ON	2007/06/09 10:30
S116	2	("20010027450" or "20030009538") and (hash or address)	US-PGPUB	OR	ON	2007/06/09 10:30
S117	2	("20010027450" or "20030009538") and (hash and address)	US-PGPUB	OR	ON	2007/06/09 10:30
S118	2	"5742087".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 11:10
S119	2	"5742087".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:40
S120	2	"5742807".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:47

EAST Search History

S121	43	((hash$3 near2 address) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:48
S122	43	((hash$3 near2 address) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:52
S123	3	((hash$3 near2 address near2 function) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:54
S124	13	((hash$3 adj address) with file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:58
S125	25	(hash$3 near2 address near5 file) and @ad < "20030221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 10:58
S126	2	"6138237".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 11:10
S127	210	((database or (data adj store)) with (hash adj functions)) and @ad<"20030221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:20
S128	82	S127 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:21

EAST Search History

S129	2	707/204.ccls. and S127 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:21
S130	4	707/4.ccls. and S127 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:21
S131	6	707/102.ccls. and S127 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:21
S132	8	707/101.ccls. and S127 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:21
S133	1	707/5.ccls. and S127 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:21
S134	0	707/6.ccls. and S127 and (data adj structure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/09 12:21

Web Results **1** - **16** of **16** for "**verification hash value**". (**0.24** seconds)

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Acquisition and **Verification Hash Value** Issues ... Posted: Wed May 16, 2007 1:15 pm
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#1: Acquisition and **Verification Hash Value** Issues Author: Norm, Location: Kansas Post
Posted: Wed May 16, 2007 11:36 am ...
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file=viewtopic&printertopic=1&t=1620&start=0... - 13k - Cached - Similar pages - Note this
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(WO/2004/023716) SECURE CONTENT DELIVERY SYSTEM
The process of claim 10, wherein if said hash value in said URL matches said **verification hash value** then said hash value verification means sends said ...
www.wipo.int/pctdb/en/wo.jsp?IA=US2003027482&DISPLAY=CLAIMS - 23k -
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(WO/2004/079986) LONG-TERM SECURE DIGITAL SIGNATURES
From the document 20 and the digital mark 23 a second verification hash 40 is derived resulting in a third **verification hash value** 42. ...
www.wipo.int/pctdb/en/wo.jsp?WO=2004%2F079986&IA=WO2004%
2F079986&DISPLAY=DESC - 44k - Cached - Similar pages - Note this
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Method for insuring uniqueness of an original CD - Patent 6188659
generating a verification value using a verification function that utilizes the **verification hash value** and the signature recorded on the recording disc, ...
www.freepatentsonline.com/6188659.html - 35k - Cached - Similar pages - Note this

Additional hash functions in content-based addressing - Patent ...
Even if a collision were to occur, the **verification hash value** for the two ..... Accordingly, in 288 the **verification hash value** (VH) of the file found in ...
www.freepatentsonline.com/20040220975.html - 94k - Cached - Similar pages - Note this
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CIPO - Canadian Patent Database - Claims - 2516741
... computing a **verification hash value** for said copy of said file using said second hash function and comparing said second hash value to said **verification** ...
patents1.ic.gc.ca/claims?patent_number=2516741&language= - 19k -
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EP898216 Compaq european software patent - Method for securely ...
performing a one-way hash function on the remote control command portion ofthe broadcast message to generate a **verification hash value**; and ...
gauss.ffii.org/PatentView/EP898216 - 64k - Cached - Similar pages - Note this

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verification hash value, 185. Verify File integrity, 185, 191. VESA Local Bus (VL-Bus), 8. VFS (Virtual File System). overview of, 535–538, 535–539 ...

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verification hash value, 162. verification, of evidence file, 161–167. Verify File Integrity function, 169. VESA Local Bus (VL-Bus), 7 ...
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Similar pages - Note this

Synchronizing distributed work through document logs invention
A method comprising: creating a first **verification hash value**; adding the first verification hash to a first document log; creating a second **verification** ...
www.freshpatents.com/Synchronizing-distributed-work-through-document-logs-dt20060112ptan20060010095.php?t... - 59k - Cached - Similar pages - Note this

Xbil :: Web and technology / search results for grab
discuss | trackback | tags: integrity **verification hash value** iso images message digest cryptographic grab linux all | Add this link to. ...
www.xbil.com/search.php?search=grab&tag=true - 152k -
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wdiff draft-ietf-dnsext-nsec3-02.txt draft-ietf-dnsext-nsec3-03.txt
After **verification, hash value** that immediately follows the validator MUST ignore owner hash value for the given NSEC3 record. The value of bit 0 the Next ...
tools.ietf.org/wg/dnsext/draft-ietf-dnsext-nsec3/draft-ietf-dnsext-nsec3-03-from-02.wdiff.html - 137k - Cached - Similar pages - Note this

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entry" utilized for chain **verification, "hash value** 305 of. signature creation object document (called "document. hash value")" and "signature or reception ...
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original hash value and the **verification hash value** are identical, that is whether the data has been. changed or not. When the signature is verified, ...
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ADDITIONAL HASH FUNCTIONS IN CONTENT-BASED ADDRESSING - Patent ...
adding said random number and said **verification hash value** to an entry in a .... Even if a collision were to occur, the **verification hash value** for the two ...
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Method for insuring uniqueness of an original CD - Patent 6188659
A method as claimed in claim 3, wherein the data **identifier** number ... hashing the verification message to generate a **verification hash value** using a ...
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Global synchronization unit (GSU) for time and space (TS) stamping ...
The GSU of claim 17, wherein said hash **value** allow the data to be ..... game server containing the encrypted response data and security **verification hash**, ...
www.freepatentsonline.com/6903681.html - 218k - Cached - Similar pages - Note this
[More results from www.freepatentsonline.com]

The Austrian Citizen Card - User interface requirements
The result of the cryptographic **verification (hash values** and signature **value**) must be displayed. If it was possible to perform the certificate check (i.e. ...
www.buergerkarte.at/konzept/securitylayer/spezifikation/20040514/userinterface/UserInterface.en.html - 42k - Cached - Similar pages - Note this

WHX File Format
134+DescrLen, signed 32-bit int, FileID, A unique **identifier** of the original file. This **value** is designated solely for internal use by the program that ...
www.x-ways.net/winhex/WHX_Format.html - 40k - Cached - Similar pages - Note this

[PDF] Benutzerhandbuch X-Ways Forensics & WinHex
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Non-printable characters with a character set **value** smaller than 0x20 can be ..... and hash y to compute this password **verification hash**, where hash x is ...
www.x-ways.net/winhex/winhex-d.pdf - Similar pages - Note this

problem in returning the hash reference - nntp.perl.org
... LOG "Filter matched \n"; ## Rules **verification ## hash values** for filter ... hash **value** entery for run_position,filters_matched,actionable,severity ...
www.nntp.perl.org/group/perl.beginners/2007/10/msg96582.html - 16k - Cached - Similar pages - Note this

[PDF] Efficient Content Authentication over Distributed Hash Tables
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sufficient information for locating the hash **values** of p, namely ids id(u .... consider the task of accessing or locating the **verification hash** path ...
www.cs.brown.edu/cgc/stms/papers/adht.pdf - Similar pages - Note this

(WO/2000/018162) METHOD AND APPARATUS FOR AUTHENTICATING EMBEDDED ...
In a preferred embodiment, challenger 122 compares hash digest 212B and **verification hash value** 212A using difference element 214 to produce a result 216. ...
www.wipo.int/pctdb/en/wo.jsp?IA=WO2000018162&DISPLAY=DESC - 43k - Cached - Similar pages - Note this

(WO/2002/065258) METHOD AND APPARATUS FOR AUTHENTICATING EMBEDDED ...
... wherein the embedded software includes a unique **identifier**. ... of processing said received hash digest **value** and said **verification hash** digest **value** ...
www.wipo.int/pctdb/en/wo.jsp?wo=2002065258&IA=WO2002065258&DISPLAY=CLAIMS - 27k - Cached - Similar pages - Note this

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Verifying Data with Hashes (PHP Cookbook)
If the hashes don't match, you know that the **value** of $_REQUEST['id'] you received is not the same as the one you sent. To use a **verification hash** with a ...
hell.org.ua/Docs/oreilly/webprog/pcook/ch14_04.htm - 8k -
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[Xaraya_devel] Submit Form Button submits for another Form
... id="header-modid" **value**="#$header['modid']#" /> <input type="hidden" ...
<xar:comment>Add a **verification hash** to the user variables</xar:comment> ...
www.xaraya.com/pipermail/xaraya_devel/2007-March/003166.html - 13k -
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[GZIP] From xaraya at tefen.net Tue May 2 00:30:53 2006 From: xaraya at ...
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You can also set the **value** directly in this template via ... stores the comment to a variable, and sends an email with a **verification > hash**. ...
www.xaraya.com/pipermail/xaraya_user/2006-May.txt.gz - Similar pages - Note this

Internet Engineering Task Force M. Euchner Internet Draft Siemens ...
The initiator chooses a random **value** x, and sends an HMACed message ... error or of a failed HMAC authentication **verification. Hash** func | **Value** | Comments ...
tools.ietf.org/id/draft-euchner-mikey-dhhmac-00.txt - 23k -
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tools.ietf.org/wg/dnsext/draft-ietf-dnsext-nsec3/draft-ietf-dnsext-nsec3-03-from-02.wdiff.html - 137k - Cached - Similar pages - Note this
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[DOC] AlterGold
File Format: Microsoft Word - View as HTML
Name, Description, Example **Value**. VERIFICATION_HASH, **Verification hash** created with MD5 encoding. Look below at 4.2 for More details. MD5 Encoded String ...
www.altergold.com/altergold_sci_en.doc - Similar pages - Note this

Metalink 3.0 Specification (Second Edition) Namespace Description ...
Make the use of a unique **identifier** common across many file sharing networks and search ..... The format for chunk checksums is: **<verification> <hash** ...
www.metalinker.org/Metalink_3.0_Spec.txt - 46k - Cached - Similar pages - Note this

[PDF] Best Practices for Computer Forensics
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This **value** will be changed dramatically if any data is altered or the file is ... A **verification hash** of the image is done after the completion of ...
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510 Software Group
The web server will also generate a unique family **identifier** (FID) which could .... the key to compute a **verification hash** memmove(data, key, 8); weak(key, ...
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File **Identifier** column in Table View, 203 ..... **verification hash value**, 162. verification, of evidence file, 161–167. Verify File Integrity function, 169 ...
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Repairing Return Address Stack for Buffer Overflow Protection
values A and B are generated to check the integrity of two chunks. with hash **value** E. Upon successful **verification, hash values** of D ...
portal.acm.org/ft_gateway.cfm?id=977139&type=pdf - Similar pages - Note this

Btree (Pond Documentation)
Compute and return the **verification hash** of the object. ... DATA_BTREE. public static final int DATA_BTREE. See Also:: Constant Field **Values** ...
oceanstore.sourceforge.net/javadoc/pond/ostore/dataobj/Btree.html - 53k -
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MD5 or other hash to verify VS2008 Beta2 Pro ISO? - MSDN Forums
If there is a **verification hash**, could someone post it? I always feel better when I do a hash verify on ... It would be nice to know an official hash **value**. ...
forums.microsoft.com/MSDN/ShowPost.aspx?PostID=2052916&SiteID=1 - 112k -
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OSResources - Making Metalinks
The Metalink Creator does its best to validate your input and prevent you from entering erroneous **values** into the fields which might invalidate the ...
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Registry Compliance : API Spec v.1.1.4 (RELEASE)
The first entry in each file must be a special **verification hash** entry. .... Multiple variable/**value** pairs should be separated by ampersands. ...
https://www.registrycompliance.com/api_spec.html - 108k -
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001 /* 002 * Copyright (c) 2001 Sun Microsystems, Inc. All rights ...
094 * Note that this can also be used to generate safe password **verification hash** codes. .... 220 throw new RuntimeException("Unable to encode hash **value**. ...
www.jdocs.com/page/AjaxSourceCode?oid=52644 - 96k -
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phpwcms Forum :: View topic - phpwcms 1.2.9 - 27/02/2007
The **verification hash** was missing. [FIX] A langage var was missing for CSV import ... [FIX] When just index.php was opened without an additional GET **value** a ...
www.phpwcms.de/forum/viewtopic.php?t=13859 - 57k - Cached - Similar pages - Note this

phpwcms Changelog ========== This is a non-exhaustive (but ...
The **verification hash** was missing. [FIX] A langage var was missing for CSV import title (EN ..... **Values** are: 0 = '', 1 = , 2 = ...
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Internet-based system for enabling a time-constrained competition ...
... containing the encrypted response data and security **verification hash**, ... **value** of the local clock and a master clock time from the master clock, and ...
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will be replaced with a single **verification hash** function, vh. ... 1); the server then responds with its own nonce, a session **identifier** and the final ...
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<input type="hidden" name="VERIFICATION_HASH". **value**="5C83215E119206A061758A0F29808FFE"/>. </form>. **Verification Hash** Calculation. In the above example, ...
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(reception), "hash **value** 304 of previous signature log. entry" utilized for chain **verification, "hash value** 305 of. signature creation object document ...
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This is in addition to the **verification hash** sent with each I2NP message (as well as ... first data block) as the unique > **identifier** fed through the bloom ...
i2p.net/pipermail/i2p/2005-July.txt.gz - Similar pages - Note this

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if the fragmented flag is true, a 4 byte message ID, and a 1 byte **value**: .... If that **verification hash** does not match, the endpoint takes note of the ...
i2p.net/pipermail/i2p-cvs/2005-January.txt.gz - Similar pages - Note this

Embedded.com - Implementing SSL on 8-bit micros
A secure hash works by mapping some arbitrary amount of data into a fixed-length **value**. .... and MD5 for generating the **verification hash** for each record. ...
www.embedded.com/shared/printableArticle.jhtml?articleID=45400043 - 59k - Cached - Similar pages - Note this

Slashdot | Practical Exploits of Broken MD5 Algorithm
surprisingly many stories hashes to the same **value**. .... just make it a standard practice to provide "**verification" hash** checksums from multiple algorithms? ...
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adding **verification hash** to, 365 authentication based on, 184-186 browser capabilities information and, 179 deleting, 171 expiration time and other **values**, ...
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O'Reilly Media | PHP Cookbook
To use a **verification hash** with a cookie, add the hash to the cookie **value** with join( ) :. $secret_word = 'flyingturtle'; $cookie_value = 'Ellen'; ...
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Signature generation, Signature **verification, Hash** algorithms, Key agreement keys (inc. ... issuerKeyHash **values**." Question for ADs: Is this acceptable? ...
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password-**identifier value** is written from within this function. ..... password-**verification hash** directly from the plaintext password but from the SHA ...
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Doom 3 Alpha Leaked - TechSpot News
If you use the edonkey network, the **verification hash** is .... all graphic effects (fyi: executing 'mediumquality.cfg' will set these **values** automatically), ...
www.techspot.com/news/2997-doom-3-alpha-leaked.html - 74k -
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CIPO - Canadian Patent Database - Claims - 2363940
... game server containing the encrypted response data and security **verification hash**, ...
(f) appending the hash **value** to the security verification log; ...
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completed a handshake, they can, keyed by a unique session **identifier**, ... in the handshake **verification hash** in the Finished message in TLS1.0 whereas ...
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application **identifier** (AID) and the host based CSP will communicate to the card .....
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values for the following fields and extensions:. •. the key owner's **identifier**;. •. the algorithm **identifier** for the subject's public/private key pair; ...
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unique authentication **identifier** for each claimant, so that a verifier can ..... following steps: signature opening, encapsulated hash **verification, hash** ...
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value to 0 ensured that the client would collect not only keystrokes but other data as .....
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After each source disk is created, a SHA-1 hash **value** is calculated and saved. .....
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arbitrary amount of data into a fixed-length **value**. The key properties of hashes are that ....
and MD5 for generating the **verification hash** for each record. ...
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From ChristopherA at iPhoneWebDev.com Mon Jul 2 00:11:12 2007 From ...
responseText **value** while the request itself stays in > readyState==3 ..... **<verification>**
<hash type="md5">18148ed6dc0fc6a48f345579f099d6bd</hash> <hash ...
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must not change this **value**, or fatal errors will occur in the monitoring ..... SMKey attributes
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position **identifier**(C). LGnn is used for logic cards, where nn indicates the actual ..... triple
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The **identifier** authority table is consulted in 618 to look up the VH for the file. In 622 the
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... **verification hash**=0A= function drawRatingsWidget(propid, docid, catid, ... <input =
name=3D"submit" class=3D"buttons" type=3D"image" **value**=3D"image" ...
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  ```
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  ```

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  ```
  Where are the sales offices?
  ```

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  ```
  John Colter, Netscape Navigator
  ```

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  ```
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  ```

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  ```
  museum +art
  ```

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   Taejoon Park; Shin, K.G.;
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   Min-Hui Lin; Yu-Chen Hu; Chin-Chen Chang;
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1 Order preserving minimal perfect hash functions and information retrieval

E. A. Fox, Q. F. Chen, A. M. Daoud, L. S. Heath

December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '90**

Publisher: ACM Press

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms

Rapid access to information is essential for a wide variety of retrieval systems and applications. Hashing has long been used when the fastest possible direct search is desired, but is generally not appropriate when sequential or range searches are also required. This paper describes a hashing method, developed for collections that are relatively static, that supports both direct and sequential access. Indeed, the algorithm described gives hash functions that are optimal in terms of time an ...

2 Cryptography and data security

Dorothy Elizabeth Robling Denning

January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB) Additional Information: full citation, abstract, references, cited by, index terms

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

3 Adaptive algorithms for set containment joins

Sergey Melnik, Hector Garcia-Molina

March 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(485.76 KB) Additional Information: full citation, abstract, references, citings, index terms

A set containment join is a join between set-valued attributes of two relations, whose join condition is specified using the subset (⊆) operator. Set containment joins are deployed in

many database applications, even those that do not support set-valued attributes. In this article, we propose two novel partitioning algorithms, called the Adaptive Pick-and-Sweep Join (APSJ) and the Adaptive Divide-and-Conquer Join (ADCJ), which allow computing set containment joins efficiently. We show that ...

4 Abstract data types and software validation

John V. Guttag, Ellis Horowitz, David R. Musser
December 1978 **Communications of the ACM**, Volume 21 Issue 12
Publisher: ACM Press

Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, citings, index terms

A data abstraction can be naturally specified using algebraic axioms. The virtue of these axioms is that they permit a representation-independent formal specification of a data type. An example is given which shows how to employ algebraic axioms at successive levels of implementation. The major thrust of the paper is twofold. First, it is shown how the use of algebraic axiomatizations can simplify the process of proving the correctness of an implementation of an abstract data type. Second, ...

Keywords: abstract data type, correctness proof, data structure, data type, specification

5 A practical guide to the design of differential files for recovery of on-line databases

Houtan Aghili
December 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 4
Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

The concept of a differential file has previously been proposed as an efficient means of collecting database updates for on-line systems. This paper studies the problem of database backup and recovery for such systems, and presents an analytic model of their operation. Five key design decisions are identified and an optimization procedure for each is developed. A design algorithm that quickly provides parameters for a near-optimal differential file architecture is provided.

Keywords: backup and recovery, database maintenance, differential files, hashing functions, numerical methods, optimization, reorganization

6 Measurement: A high-level programming environment for packet trace anonymization and transformation

Ruoming Pang, Vern Paxson
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '03**
Publisher: ACM Press

Full text available: pdf(251.27 KB) Additional Information: full citation, abstract, references, citings, index terms

Packet traces of operational Internet traffic are invaluable to network research, but public sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet headers intact, completely stripping the contents; to our knowledge, there are no publicly available traces of any significant size that contain packet payloads. We describe a new approach to transform and anonymize packet traces. Our tool provide ...

Keywords: anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

7

Classics in software engineering
January 1979 Divisible Book
Publisher: Yourdon Press
Additional Information: full citation, cited by, index terms

8 Anatomy of LISP
John Allen
January 1978 Book
Publisher: McGraw-Hill, Inc.
Additional Information: full citation, abstract, references, cited by, index terms

This text is nominally about LISP and data structures. However, in the process it covers much broader areas of computer science. The author has long felt that the beginning student of computer science has been getting' a distorted and disjointed picture of the field. In some ways this confusion is natural; the field has been growing at such a rapid rate that few are prepared to be judged experts in all areas of the discipline. The current alternative seems to be to give a few introductory cou ...

9 Error Detection Using Dynamic Dataflow Verification
Albert Meixner, Daniel J. Sorin
September 2007 **Proceedings of the 16th International Conference on Parallel Architecture and Compilation Techniques (PACT 2007) - Volume 00 PACT '07**
Publisher: IEEE Computer Society
Full text available: pdf(560.17 KB) Additional Information: full citation, abstract

A significant fraction of the circuitry in a modern processor is dedicated to converting the linear instruction stream into a representation that allows the execution of instructions in data dependence order, rather than program order, to extract instruction level parallelism. All errors caused by hardware faults in this circuitry-- which includes the fetch and decode stages, renaming and scheduling logic, as well as the commit stage--will manifest themselves as incorrectly constructed dataflow ...

10 Wide-area cooperative storage with CFS
Frank Dabek, M. Frans Kaashoek, David Karger, Robert Morris, Ion Stoica
October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5
Publisher: ACM Press
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings, index terms

The Cooperative File System (CFS) is a new peer-to-peer read-only storage system that provides provable guarantees for the efficiency, robustness, and load-balance of file storage and retrieval. CFS does this with a completely decentralized architecture that can scale to large systems. CFS servers provide a distributed hash table (DHash) for block storage. CFS clients interpret DHash blocks as a file system. DHash distributes and caches blocks at a fine granularity to achieve load balance, uses ...

11 Distributed systems: Attested append-only memory: making adversaries stick to their word
Byung-Gon Chun, Petros Maniatis, Scott Shenker, John Kubiatowicz
October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**
Publisher: ACM Press
Full text available: pdf(361.31 KB) Additional Information: full citation, abstract, references, index terms

Researchers have made great strides in improving the fault tolerance of both centralized and replicated systems against arbitrary (Byzantine) faults. However, there are hard

limits to how much can be done with entirely untrusted components; for example, replicated state machines cannot tolerate more than a third of their replica population being Byzantine. In this paper, we investigate how minimal trusted abstractions can push through these hard limits in practical ways. We propose Attested A ...

Keywords: attested append-only memory, byzantine-fault tolerance, equivocation, replicated state machines, shared storage

12 Secure Data Publishing and Certificate Management: Tangler: a censorship-resistant publishing system based on document entanglements

Marc Waldman, David Mazières

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security CCS '01**

Publisher: ACM Press

Full text available: pdf(149.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe the design of a censorship-resistant system that employs a unique document storage mechanism. Newly published documents are dependent on the blocks of previously published documents. We call this dependency an *entanglement*. Entanglement makes replication of previously published content an intrinsic part of the publication process. Groups of files, called collections, can be published together and named in a host-independent manner. Individual documents within a collection can ...

13 Efficient identification of hot data for flash memory storage systems

Jen-Wei Hsieh, Tei-Wei Kuo, Li-Pin Chang

February 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(557.23 KB) Additional Information: full citation, abstract, references, index terms

Hot data identification for flash memory storage systems not only imposes great impacts on flash memory garbage collection but also strongly affects the performance of flash memory access and its lifetime (due to wear-levelling). This research proposes a highly efficient method for on-line hot data identification with limited space requirements. Different from past work, multiple independent hash functions are adopted to reduce the chance of false identification of hot data and to provide predic ...

Keywords: Storage system, flash memory, garbage collection, workload locality

14 Digital multimedia book: From digital audiobook to secure digital multimedia-book

Lavinia Egidi, Marco Furini

July 2006 **Computers in Entertainment (CIE)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(364.18 KB) Additional Information: full citation, abstract, references, index terms

Portable devices and wireless connections are creating a new scenario in which digital information is entering our lives in a massive way. In this article we consider MP3 audiobook applications and propose an approach to completely restyle the applications to the current mobile and multimedia scenario. Our mechanism introduces multimedia contents (images and text) into the audiobook application and synchronizes them with the MP3 audio stream. Multimedia contents are protected by a security syste ...

Keywords: multimedia applications, multimedia communications, multimedia over wireless, music distribution

15 Strong accountability for network storage

Aydan R. Yumerefendi, Jeffrey S. Chase

October 2007 **ACM Transactions on Storage (TOS)**, Volume 3 Issue 3
Publisher: ACM
Full text available: pdf(620.65 KB) Additional Information: full citation, abstract, references, index terms

This article presents the design, implementation, and evaluation of CATS, a network storage service with strong accountability properties. CATS offers a simple web services interface that allows clients to read and write opaque objects of variable size. This interface is similar to the one offered by existing commercial Internet storage services. CATS extends the functionality of commercial Internet storage services by offering support for strong accountability.

A CATS server annotates ...

Keywords: Accountable services, accountability, accountable storage

16 The LOCKSS peer-to-peer digital preservation system
Petros Maniatis, Mema Roussopoulos, T. J. Giuli, David S. H. Rosenthal, Mary Baker
February 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(715.30 KB) Additional Information: full citation, abstract, references, citings, index terms

The LOCKSS project has developed and deployed in a world-wide test a peer-to-peer system for preserving access to journals and other archival information published on the Web. It consists of a large number of independent, low-cost, persistent Web caches that cooperate to detect and repair damage to their content by voting in "opinion polls." Based on this experience, we present a design for and simulations of a novel protocol for voting in systems of this kind. It incorporates rate l ...

Keywords: Rate limiting, digital preservation, replicated storage

17 Control and integrity: New techniques for ensuring the long term integrity of digital archives
Sangchul Song, Joseph JaJa
May 2007 **Proceedings of the 8th annual international conference on Digital government research: bridging disciplines & domains dg.o '07**
Publisher: Digital Government Research Center
Full text available: pdf(607.08 KB) Additional Information: full citation, abstract, references, index terms

A large portion of the government, business, cultural, and scientific digital data being created today needs to be archived and preserved for future use of periods ranging from a few years to decades and sometimes centuries. A fundamental requirement of a long term archive is to ensure the integrity of its holdings. In this paper, we develop a new methodology to address the integrity of long term archives using rigorous cryptographic techniques. Our approach involves the generation of a small ...

Keywords: data integrity, digital archives, integrity audits, linked hashing

18 Short papers -- storage survivability: Verifiable audit trails for a versioning file system
Randal Burns, Zachary Peterson, Giuseppe Ateniese, Stephen Bono
November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**
Publisher: ACM Press
Full text available: pdf(153.80 KB) Additional Information: full citation, abstract, references, citings, index terms

We present constructs that create, manage, and verify digital audit trails for versioning file systems. Based upon a small amount of data published to a third party, a file system

commits to a version history. At a later date, an auditor uses the published data to verify the contents of the file system at any point in time. Audit trails create an analog of the paper audit process for file data, helping to meet the requirements of electronic record legislation, such as Sarbanes-Oxley. Our techniq ...

Keywords: electronic records, secure audit, versioning file systems

19 Network-based approach: Modeling cryptographic properties of voice and voice-based entity authentication

Giovanni Di Crescenzo, Munir Cochinwala, Hyong S. Shim

November 2007 **Proceedings of the 2007 ACM workshop on Digital identity management DIM '07**

Publisher: ACM

Full text available: pdf(230.76 KB) Additional Information: full citation, abstract, references, index terms

Strong and/or multi-factor entity authentication protocols are of crucial importancein building successful identity management architectures. Popular mechanisms to achieve these types of entity authentication are biometrics, and, in particular, voice, for which there are especially interesting business cases in the telecommunication and financial industries, among others. Despite several studies on the suitability of voice within entity authentication protocols, there has been little or no fo ...

Keywords: biometrics, entity authentication, modeling human factors, voice

20 A Practical Approach to Selecting Record Access Paths

D. G. Severance, J. V. Carlis

December 1977 **ACM Computing Surveys (CSUR)**, Volume 9 Issue 4

Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, references, citings, index terms

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Relevance scale

21 A secure and private system for subscription-based remote services

Pino Persiano, Ivan Visconti

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(241.65 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we study privacy issues regarding the use of the SSL/TLS protocol and X.509 certificates. Our main attention is placed on subscription-based remote services (e.g., subscription to newspapers and databases) where the service manager charges a flat fee for a period of time independent of the actual number of times the service is requested.We start by pointing out that restricting the access to such services by using X.509 certificates and the SSL/TLS protocol, while preserving the in ...

Keywords: Access control, anonymity, cryptographic algorithms and protocols, privacy, world-wide web

22 Informed content delivery across adaptive overlay networks

John Byers, Jeffrey Considine, Michael Mitzenmacher, Stanislav Rost

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02**, Volume 32 Issue 4

Publisher: ACM Press

Full text available: pdf(245.12 KB) Additional Information: full citation, abstract, references, citings, index terms

Overlay networks have emerged as a powerful and highly flexible method for delivering content. We study how to optimize throughput of large transfers across richly connected, adaptive overlay networks, focusing on the potential of collaborative transfers between peers to supplement ongoing downloads. First, we make the case for an erasure-resilient encoding of the content. Using the digital fountain encoding approach, end-hosts can efficiently reconstruct the original content of size n from a ...

Keywords: Bloom filter, collaboration, content delivery, digital fountain, erasure correcting code, min-wise summary, overlay, peer-to-peer, reconciliation

23 Effective clustering of objects stored by linear hashing

Jukka Teuhola

December 1995 **Proceedings of the fourth international conference on Information**

and knowledge management CIKM '95
Publisher: ACM Press
Full text available: pdf(651.76 KB) Additional Information: full citation, references, index terms

24 ISOC symposium on network and distributed systems security
Dan Nessett
April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(821.23 KB) Additional Information: full citation, index terms

25 Session 3: Building secure file systems out of byzantine storage
David Mazières, Dennis Shasha
July 2002 **Proceedings of the twenty-first annual symposium on Principles of distributed computing PODC '02**
Publisher: ACM Press
Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings

This paper shows how to implement a trusted network file system on an untrusted server. While cryptographic storage techniques exist that allow users to keep data secret from untrusted servers, this work concentrates on the detection of tampering attacks and stale data. Ideally, users of an untrusted storage server would immediately and unconditionally notice any misbehavior on the part of the server. This ideal is unfortunately not achievable. However, we define a notion of data integrity calle ...

26 Archiving scientific data
Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan
March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(745.61 KB) Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierachical format and has a key structure that provides a canonical identification for each element of the hierarchy. In this article, we exploit these properties to develop an archiving technique that is both efficient in its use of space and preserves the continuity of elements through versions ...

Keywords: Keys for XML

27 Role-based access control on the web
Joon S. Park, Ravi Sandhu, Gail-Joon Ahn
February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1
Publisher: ACM Press
Full text available: pdf(331.03 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

28 Dynamic Metadata Management for Petabyte-Scale File Systems
Sage A. Weil, Kristal T. Pollack, Scott A. Brandt, Ethan L. Miller
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing SC '04**
Publisher: IEEE Computer Society
Full text available: pdf(175.04 KB) Additional Information: full citation, abstract, citings

In petabyte-scale distributed file systems that decouple read and write from metadata operations, behavior of the metadata server cluster will be critical to overall system performance and scalability. We present a dynamic subtree partitioning and adaptive metadata management system designed to efficiently manage hierarchical metadata workloads that evolve over time. We examine the relative merits of our approach in the context of traditional workload partitioning strategies, and demonstrate the ...

29 A public-key based secure mobile IP
John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent
October 1999 **Wireless Networks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(255.65 KB) Additional Information: full citation, references, citings, index terms

30 Security enhanced mobile agents
Vijay Varadharajan
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**
Publisher: ACM Press
Full text available: pdf(393.46 KB) Additional Information: full citation, references, citings, index terms

Keywords: mobile agents, secure agent based application, security model

31 Analysis of lexical signatures for improving information persistence on the World Wide Web
Seung-Taek Park, David M. Pennock, C. Lee Giles, Robert Krovetz
October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4
Publisher: ACM Press
Full text available: pdf(808.10 KB) Additional Information: full citation, abstract, references, citings, index terms

A lexical signature (LS) consisting of several key words from a Web document is often sufficient information for finding the document later, even if its URL has changed. We conduct a large-scale empirical study of nine methods for generating lexical signatures, including Phelps and Wilensky's original proposal (PW), seven of our own static variations, and one new dynamic method. We examine their performance on the Web over a 10-month period, and on a TREC data set, evaluating t ...

Keywords: Broken URLs, TREC, World Wide Web, dead links, digital libraries, indexing, information retrieval, inverse document frequency, lexical signatures, robust hyperlinks, search engines, term frequency

32 Main track: Securing the deluge Network programming system
Prabal K. Dutta, Jonathan W. Hui, David C. Chu, David E. Culler
April 2006 **Proceedings of the fifth international conference on Information**

processing in sensor networks IPSN '06
Publisher: ACM Press

Full text available: pdf(331.36 KB) Additional Information: full citation, abstract, references, cited by, index terms

A number of multi-hop, wireless, network programming systems have emerged for sensor network retasking but none of these systems support a cryptographically-strong, public-key-based system for source authentication and integrity verification. The traditional technique for authenticating a program binary, namely a digital signature of the program hash, is poorly suited to resource-contrained sensor nodes. Our solution to the secure programming problem leverages authenticated streams, is consisten ...

Keywords: authenticated broadcast, dissemination protocols, network programming, security, wireless sensor networks

33 VYRD: verifying concurrent programs by runtime refinement-violation detection
Tayfun Elmas, Serdar Tasiran, Shaz Qadeer
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40 Issue 6
Publisher: ACM Press

Full text available: pdf(683.57 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a runtime technique for checking that a concurrently-accessed data structure implementation, such as a file system or the storage management module of a database, conforms to an executable specification that contains an atomic method per data structure operation. The specification can be provided separately or a non-concurrent, "atomized" interpretation of the implementation can serve as the specification. The technique consists of two phases. In the first phase, the implementation is ...

Keywords: concurrent data structures, refinement, runtime verification

34 Using name-based mappings to increase hit rates
David G. Thaler, Chinya V. Ravishankar
February 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 1
Publisher: IEEE Press
Full text available: pdf(408.98 KB) Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, caching, client-server systems, computer networks, distributed agreement, multicast routing, proxies

35 Bibliography of recent publication in computer networking
July 1989 **ACM SIGCOMM Computer Comm unication Review**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(2.53 MB) Additional Information: full citation, index terms

36 Applications, services, and architecture: Reputation-based Wi-Fi deployment protocols and security analysis
Naouel Ben Salem, Jean-Pierre Hubaux, Markus Jakobsson
October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '04**
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(395.70 KB) terms

In recent years, wireless Internet service providers (WISPs) have established thousands of WiFi hot spots in cafes, hotels and airports in order to offer to travelling Internet users access to email, web or other Internet service. However, two major problems still slow down the deployment of this kind of networks: the lack of a seamless roaming scheme and the variable quality of service experienced by the users. This paper provides a response to these two problems: We present a solution that, ...

Keywords: QoS, WiFi networks, billing, protocols, reputation systems, roaming, security

37 Architecture for Protecting Critical Secrets in Microprocessors

Ruby B. Lee, Peter C. S. Kwan, John P. McGregor, Jeffrey Dwoskin, Zhenghong Wang
May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd annual international symposium on Computer Architecture ISCA '05**, Volume 33 Issue 2
Publisher: IEEE Computer Society, ACM Press
Full text available: pdf(143.62 KB) Additional Information: full citation, abstract, cited by, index terms

We propose "secret-protected (SP)" architecture to enable secure and convenient protection of critical secrets for a given user in an on-line environment. Keys are examples of critical secrets, and key protection and management is a fundamental problem ¿ often assumed but not solved ¿ underlying the use of cryptographic protection of sensitive files, messages, data and programs. SP-processors contain a minimalist set of architectural features that can be built into a general-purpose microprocess ...

38 General storage protection techniques: Securing distributed storage: challenges, techniques, and systems

Vishal Kher, Yongdae Kim
November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**
Publisher: ACM Press
Full text available: pdf(294.61 KB) Additional Information: full citation, abstract, references, index terms

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related to storage and present a comprehensive survey of the security services provided by the existing storage systems. We cover a broad range of the storage security literature, present a critical review of the existing solutions, compare ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

39 Technical correspondence

CORPORATE Tech Correspondence
October 1989 **Communications of the ACM**, Volume 32 Issue 10
Publisher: ACM Press
Full text available: pdf(2.15 MB) Additional Information: full citation, references, citings, index terms

40 PP-trust-X: A system for privacy preserving trust negotiations

A. Squicciarini, E. Bertino, Elena Ferrari, F. Paci, B. Thuraisingham
July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 3
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, index terms

Trust negotiation is a promising approach for establishing trust in open systems, in which

sensitive interactions may often occur between entities with no prior knowledge of each other. Although, to date several trust negotiation systems have been proposed, none of them fully address the problem of privacy preservation. Today, privacy is one of the major concerns of users when exchanging information through the Web and thus we believe that trust negotiation systems must effectively address pr ...

Keywords: Access control, attribute-based access control, automated trust negotiation, credentials, privacy, strategy

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Relevance scale

41 Summary cache: a scalable wide-area web cache sharing protocol

Li Fan, Pei Cao, Jussara Almeida, Andrei Z. Broder

June 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3

Publisher: IEEE Press

Full text available: pdf(220.29 KB) Additional Information: full citation, references, citings, index terms

Keywords: ICP, Web cache, Web proxy, bloom filter, cache sharing

42 A semantics for web services authentication

Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon

January 2004 **ACM SIGPLAN Notices , Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '04**, Volume 39 Issue 1

Publisher: ACM Press

Full text available: pdf(234.06 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of specifying and verifying cryptographic security protocols for XML web services. The security specification WS-Security describes a range of XML security tokens, such as username tokens, public-key certificates, and digital signature blocks, amounting to a flexible vocabulary for expressing protocols. To describe the syntax of these tokens, we extend the usual XML data model with symbolic representations of cryptographic values. We use predicates on this data model to d ...

Keywords: XML security, applied pi calculus, web services

43 Cryptography as an operating system service: A case study

Angelos D. Keromytis, Jason L. Wright, Theo De Raadt, Matthew Burnside

February 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(669.12 KB) Additional Information: full citation, abstract, references, index terms

Cryptographic transformations are a fundamental building block in many security applications and protocols. To improve performance, several vendors market hardware accelerator cards. However, until now no operating system provided a mechanism that allowed both uniform and efficient use of this new type of resource.We present the OpenBSD Cryptographic Framework (OCF), a service virtualization layer implemented inside the operating system kernel, that provides uniform access to accelerator functio ...

Keywords: Encryption, authentication, cryptographic protocols, digital signatures, hash functions

44 Puzzles and users: New client puzzle outsourcing techniques for DoS resistance

Brent Waters, Ari Juels, J. Alex Halderman, Edward W. Felten

October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**

Publisher: ACM Press

Full text available: pdf(382.11 KB) Additional Information: full citation, abstract, references, citings, index terms

We explore new techniques for the use of cryptographic puzzles as a countermeasure to Denial-of-Service (DoS) attacks. We propose simple new techniques that permit the outsourcing of puzzles; their distribution via a robust external service that we call a bastion. Many servers can rely on puzzles distributed by a single bastion. We show how a bastion, somewhat surprisingly, need not know which servers rely on its services. Indeed, in one of our constructions, a bastion may consist merely of ...

Keywords: DoS, client puzzles, denial-of-service

45 Using content-derived names for configuration management

Jeffrey K. Hollingsworth, Ethan L. Miller

May 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability SSR '97**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(753.19 KB) Additional Information: full citation, references, citings, index terms

46 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: pdf(365.68 KB) Additional Information: full citation, abstract, references, citings, index terms

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

47 Signature extraction for overlap detection in documents

Raphael A. Finkel, Arkady Zaslavsky, Krisztián Monostori, Heinz Schmidt

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 ACSC '02**, Volume 24 Issue 1

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: pdf(715.78 KB) Additional Information: full citation, abstract, references, cited by, index terms

Easy access to the Web has led to increased potential for students cheating on assignments by plagiarising others' work. By the same token, Web-based tools offer the potential for instructors to check submitted assignments for signs of plagiarism. Overlap-

detection tools are easy to use and accurate in plagiarism detection, so they can be an excellent deterrent to plagiarism. Documents can overlap for other reasons, too: Old documents are superseded, and authors summarize previous work identical ...

Keywords: plagiarism document overlap culling digest

48 Session M9: digital rights and marketing: Digital rights management using a mobile phone

Imad M. Abbadi, Chris J. Mitchell

August 2007 **Proceedings of the ninth international conference on Electronic commerce ICEC '07**

Publisher: ACM Press

Full text available: pdf(497.09 KB) Additional Information: full citation, abstract, references, index terms

This paper focuses on the problem of preventing illegal copying of digital assets without jeopardising the right of legitimate licence holders to transfer content between their own devices, which make up a domain. Our novel idea involves the use of a domain-specific mobile phone and the mobile phone network operator to authenticate the domain owner before devices can join a domain. This binds devices in a domain to a single owner, that, in turn, enables the binding of domain licences to the d ...

Keywords: 3GPP GAA, DRM, access control, authorised domain management, copyright protection, trusted computing

49 Secure password-based cipher suite for TLS

May 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(507.57 KB) Additional Information: full citation, abstract, references, citings, index terms, review

SSL is the de facto standard today for securing end-to-end transport on the Internet. While the protocol itself seems rather secure, there are a number of risks that lurk in its use, for example, in web banking. However, the adoption of password-based key-exchange protocols can overcome some of these problems. We propose the integration of such a protocol (DH-EKE) in the TLS protocol, the standardization of SSL by IETF. The resulting protocol provides secure mutual authentication and key establi ...

Keywords: Authenticated key exchange, dictionary attack, key agreement, password, perfect forward secrecy, secure channel, transport layer security, weak secret

50 Digital rights management for content distribution

Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(224.63 KB) Additional Information: full citation, abstract, references, citings, index terms

Transferring the traditional business model for selling digital goods linked to physical media to the online world leads to the need for a system to protect digital intellectual property. Digital Rights Management(DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...

Keywords: DRM, digital content

51 An implementation technique for database query languages

Peter Buneman, Robert E. Frankel, Rishiyur Nikhil
June 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 2
Publisher: ACM Press

Full text available: pdf(1.78 MB) Additional Information: full citation, abstract, references, citings, index terms

Structured query languages, such as those available for relational databases, are becoming increasingly desirable for all database management systems. Such languages are applicative: there is no need for an assignment or update statement. A new technique is described that allows for the implementation of applicative query languages against most commonly used database systems. The technique involves "lazy" evaluation and has a number of advantages over existing methods: it allows ...

Keywords: applicative programing, coroutines, database interfaces, lazy evaluation

52 PLEIADES: an object management system for software engineering environments

Peri Tarr, Lori A. Clarke
December 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1st ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '93**, Volume 18 Issue 5
Publisher: ACM Press

Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

Software engineering environments impose challenging requirements on the design and implementation of an object management system. Existing object management systems have been limited in both the kinds of functionality they have provided and in the models of support they define. This paper describes a system, called PLEIADES, which provides many of the object management capabilities required to support software engineering environments.

53 Data base system objectives as design constraints

Mary E. Snuggs, Gerald J. Popek, Ronald J. Peterson
December 1974 **ACM SIGMIS Database**, Volume 6 Issue 3
Publisher: ACM Press
Full text available: pdf(724.77 KB) Additional Information: full citation, references

54 A public-key based secure mobile IP

John Zao, Stephen Kent, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking MobiCom '97**
Publisher: ACM Press
Full text available: pdf(1.95 MB) Additional Information: full citation, references, citings

55 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(340.33 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The Post-PC revolution is bringing information access to a wide range of devices beyond

the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

56 Database sharing and privacy: GhostDB: querying visible and hidden data without leaks

Nicolas Anciaux, Mehdi Benzine, Luc Bouganim, Philippe Pucheral, Dennis Shasha
June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**
Publisher: ACM Press
Full text available: pdf(416.88 KB) Additional Information: full citation, abstract, references, index terms

Imagine that you have been entrusted with private data, such as corporate product information, sensitive government information, or symptom and treatment information about hospital patients. You may want to issue queries whose result will combine private and public data, but private data must not be revealed. GhostDB is an architecture and system to achieve this. You carry private data in a smart USB key (a large Flash persistent store combined with a tamper and snoop-resistant CPU and small ...

Keywords: privacy, secure device, storage model

57 Secure authentication system for public WLAN roaming

Ana Sanz Merino, Yasuhiko Matsunaga, Manish Shah, Takashi Suzuki, Randy H. Katz
June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(2.43 MB) Additional Information: full citation, abstract, references, index terms

A serious challenge for seamless roaming between independent wireless LANs (WLANs) is how best to confederate the various WLAN service providers, each having different trust relationships with individuals and each supporting their own authentication schemes, which may vary from one provider to the next. We have designed and implemented a comprehensive single sign-on (SSO) authentication architecture that confederates WLAN service providers through trusted identity providers. Users select the app ...

Keywords: authentication, link layer security, policy control, roaming, wireless LAN

58 The KaffeOS Java runtime system

Godmar Back, Wilson C. Hsieh
July 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 4
Publisher: ACM Press
Full text available: pdf(704.30 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Single-language runtime systems, in the form of Java virtual machines, are widely deployed platforms for executing untrusted mobile code. These runtimes provide some of the features that operating systems provide: interapplication memory protection and basic system services. They do not, however, provide the ability to isolate applications from each other. Neither do they provide the ability to limit the resource consumption of applications. Consequently, the performance of current systems degra ...

Keywords: Robustness, garbage collection, isolation, language runtimes, resource management, termination, virtual machines

59 An authorization model for a public key management service

Pierangela Samarati, Michael K. Reiter, Sushil Jajodia

November 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(337.73 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Public key management has received considerable attention from both the research and commercial communities as a useful primitive for secure electronic commerce and secure communication. While the mechanics of certifying and revoking public keys and escrowing and recovering private keys have been widely explored, less attention has been paid to access control frameworks for regulating access to stored keys by different parties. In this article we propose such a framework for a key management ser ...

Keywords: Access control, authorizations specification and enforcement, public key infrastructure

60 COCA: A secure distributed online certification authority

Lidong Zhou, Fred B. Schneider, Robbert Van Renesse

November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(448.28 KB) Additional Information: full citation, abstract, references, citings, index terms

COCA is a fault-tolerant and secure online certification authority that has been built and deployed both in a local area network and in the Internet. Extremely weak assumptions characterize environments in which COCA's protocols execute correctly: no assumption is made about execution speed and message delivery delays; channels are expected to exhibit only intermittent reliability; and with $3t + 1$ COCA servers up to t may be faulty or compromised. COCA is the first system to integr ...

Keywords: Byzantine quorum systems, Certification authority, denial of service, proactive secret-sharing, public key infrastructure, threshold cryptography

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61 A Teradata content-based multimedia object manager for massively parallel architectures

W. O'Connell, I. T. Ieong, D. Schrader, C. Watson, G. Au, A. Biliris, S. Choo, P. Colin, G. Linderman, E. Panagos, J. Wang, T. Walter

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, citings, index terms

The Teradata Multimedia Object Manager is a general-purpose content analysis multimedia server designed for symmetric multiprocessing and massively parallel processing environments. The Multimedia Object Manager defines and manipulates user-defined functions (UDFs), which are invoked in parallel to analyze or manipulate the contents of multimedia objects. Several computationally intensive applications of this technology, which use large persistent datasets, include fingerprint matching, signatur ...

Keywords: Teradata, content-based analysis, parallel multimedia database, user-defined functions

62 Performance analysis of TLS Web servers

Cristian Coarfa, Peter Druschel, Dan S. Wallach

February 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(743.44 KB) Additional Information: full citation, abstract, references, index terms

TLS is the protocol of choice for securing today"s e-commerce and online transactions but adding TLS to a Web server imposes a significant overhead relative to an insecure Web server on the same platform. We perform a comprehensive study of the performance costs of TLS. Our methodology is to profile TLS Web servers with trace-driven workloads, replace individual components inside TLS with no-ops, and measure the observed increase in server throughput. We estimate the relative costs of each TLS p ...

Keywords: Internet, RSA accelerator, TLS, e-commerce, secure Web servers

63 The VMP network adapter board (NAB): high-performance network communication for multiprocessors

H. Kanakia, D. Cheriton

August 1988 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols SIGCOMM**

'88, Volume 18 Issue 4
Publisher: ACM Press

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms

High performance computer communication between multiprocessor nodes requires significant improvements over conventional host-to-network adapters. Current host-to-network adapter interfaces impose excessive processing, system bus and interrupt overhead on a multiprocessor host. Current network adapters are either limited in function, wasting key host resources such as the system bus and the processors, or else intelligent but too slow, because of complex transport protocols and because of a ...

64 Mobile and Cooperative Systems: An authorization infrastructure for nomadic computing

Kan Zhang, Tim Kindberg

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies SACMAT '02**
Publisher: ACM Press

Full text available: pdf(198.22 KB) Additional Information: full citation, abstract, references, citings, index terms

We present an infrastructure for flexible and secure access to a group of distributed services in a nomadic computing environment, wherein users access local services from their mobile, wirelessly connected devices. We describe a secure hand-off' protocol, which allows a user to register with a single service that hands off' authorization to access a subset of the services. Our protocol helps maintain the user's privacy. It allows the services (which may be implemented on simple appliances) and ...

Keywords: access control, authorization, mobile computing, nomadic computing, ubiquitous computing

65 SPINS: security protocols for sensor networks

Adrian Perrig, Robert Szewczyk, J. D. Tygar, Victor Wen, David E. Culler

September 2002 **Wireless Networks**, Volume 8 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(213.37 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless sensor networks will be widely deployed in the near future. While much research has focused on making these networks feasible and useful, security has received little attention. We present a suite of security protocols optimized for sensor networks: SPINS. SPINS has two secure building blocks: SNEP and µTESLA. SNEP includes: data confidentiality, two-party data authentication, and evidence of data freshness. µTESLA provides authenticated broadcast for severely resource-constrained ...

Keywords: MANET, authentication of wireless communication, cryptography, mobile ad hoc networks, secrecy and confidentiality, secure communication protocols, sensor networks

66 Services: Secure authentication system for public WLAN roaming

Yasuhiko Matsunaga, Ana Sanz Merino, Takashi Suzuki, Randy H. Katz

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**
Publisher: ACM Press

Full text available: pdf(248.60 KB) Additional Information: full citation, abstract, references, citings, index terms

A serious impediment for seamless roaming between independent wireless LANs (WLANs) is how best to confederate the various WLAN service providers, each having different trust relationships with individuals and each supporting their own authentication schemes which

may vary from one provider to the next. We have designed and implemented a comprehensive single sign-on (SSO) authentication architecture that confederates WLAN service providers through trusted identity providers. Users select the app ...

Keywords: authentication, hotspot, link layer security, policy control, roaming, single sign-on, wireless LAN

67 Rigi-A system for programming-in-the-large

H. A. Müller, K. Klashinsky

April 1988 **Proceedings of the 10th international conference on Software engineering ICSE '88**

Publisher: IEEE Computer Society Press

Full text available: pdf(977.98 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes Rigi, a model and a tool for programming-in-the-large. Rigi uses a graph model and abstraction mechanisms to structure and represent the information accumulated during the development process. The objects and relationships of the graph model represent system components and their dependencies. The objects can be arranged in aggregation and generalization hierarchies. The Rigi editor assists the designers, programmers, integrators, and maintainers in defining, manipulatin ...

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